SWETA AGRAWAL

Department of Computer Science, University of Maryland College Park, MD 20740
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EDUCATION

Ph.D. in Computer Science August 2018 - Present
University of Maryland, College Park (CGPA: **3.97**/4.0)
Advisor: Marine Carpuat

Bachelor of Technology in Computer Science and Engineering July 2013 - May 2017
Indian Institute of Technology Guwahati (CGPA: **9.30**/10.0)
Advisor: Amit Awekar

PUBLICATIONS AND PATENTS

Publications

Sweta Agrawal and Marine Carpuat, *Controlling Text Complexity in Neural Machine Translation*, **EMNLP-IJCNLP** 2019.

Sweta Agrawal and Amit Awekar, *Deep Learning for Detecting Cyberbullying Across Multiple Social Media Platforms*, European Conference on Information Retrieval (**ECIR**), 2018.

Ankur Garg, Sunav Choudhary, Payal Bajaj, **Sweta Agrawal**, Abhishek Kedia, and Shubham Agarwal, *Smart Geo-Fencing Using Location Sensitive Product Affinity*, **ACM SIGSPATIAL**, 2017.

Patents

Chetan Nanda, **Sweta Agrawal**, Ramesh P B, *Temporal Color Correction using Machine Learning*, USPTO.

Ankur Garg, **Sweta Agrawal**, Payal Bajaj, Abhishek Kedia, and Shubham Agarwal, *Smart Geo-Fencing Using Location Sensitive Product Affinity*, USPTO.

SKILLS

Programming Languages	Python, C/C++, R
ML Frameworks	Pytorch, Tensorflow, Caffe, Keras, Scikit-Learn, Theano

RELEVANT COURSEWORK

Graduate Courses	Computational Linguistics, Visual Learning and Recognition, Numerical Optimization, Algorithms in Machine Learning: Guarantees and Analyses, Information Retrieval Systems, Seminar in Computational Linguistics and the Cognitive Neuroscience of Language
Undergraduate Courses	Artificial Intelligence, Natural Language Processing, Computer Vision, Information Retrieval, Probability Theory and Random Processes, Algorithmic Game Theory, Data Mining

EXPERIENCE

Graduate Research Assistant, Computational Linguistics and Information Processing (CLIP) lab, University of Maryland June 2019 - December 2019

Member of Technical Staff, Adobe Systems, Noida, India June 2017 - July 2018

Research Intern, Adobe Systems, Bangalore, India May 2016 - July 2016

Research Intern, Summer Research Fellowship Program, IIT Kanpur May 2015 - July 2015

TEACHING EXPERIENCE

Graduate Courses Artificial Intelligence Planning (Spring 2020)
Undergraduate Courses Natural Language Processing (Fall 2018), Deep Learning (Spring 2019)

PROJECTS

Detecting Linguistic Properties in Contextualized Word Representations (CWRs) via Neural Probing August 2019 - November 2019
Philip Resnik, Department of Computer Science, University of Maryland
Proposed a novel probing task to understand the linguistic knowledge, specifically syntax, semantics and discourse, associated with CWRs by using region-specific priors obtained from fMRI experiments conducted in the brain.

Controlling Text Complexity in Neural Machine Translation August 2018 - May 2019
Marine Carpuat, Department of Computer Science, University of Maryland
Introduced a machine translation task where the output is aimed at audiences of different levels of target language proficiency and investigated the impact of different types of translation and text simplification supervision for this task.

Deep Memorized Discriminative Patches for Object Discovery August 2018 - May 2019
Abhinav Shrivastava, Department of Computer Science, University of Maryland
Explaining knowledge representations found in the hidden layers of Deep Neural Network by discovering mid-level patterns and using it for the discovery of new objects.

Detecting Cyberbullying Across Multiple Social Media Platforms July 2016 - May 2017
Amit Awekar, Department of Computer Science and Engineering, IIT Guwahati
Experimented with DNN architectures that outperform traditional ML models and used knowledge transfer between SMPs to improve performance for the task of bullying detection.

SBQA: Searching Boosting Question Answering August 2018 - December 2018
Jordan Boyd-Graber, Department of Computer Science, University of Maryland
Developed a system for Quizbowl, a trivia QA competition, proposed unique solutions for the guesser and the buzzer modules and consistently scored top performance in the leaderboard.

Follow the hashtag: Popping the filter bubble January 2017 - April 2017
Ashish Anand, Department of Computer Science and Engineering, IIT Guwahati
Studied the problem of filter bubble in Twitter. Used auto-encoders to encode tweets into vector representations which were then clustered to form opinion buckets.